

- 10. The marker system of claim 8 wherein the markers are opaque to infrared light.
- 11. The marker system of claim 8 wherein the markers are opaque to ultraviolet light.
- 12. The marker system of claim 6 wherein the opaque markers are arranged in a pattern.
- 13. The marker system of claim 12 wherein the pattern forms a measuring index.
- 14. The marker system of claim 13 wherein the measuring index comprises a topographical index.
- 15. The marker system of claim 6 wherein the opaque markers comprise an ink.
- 16. The marker system of claim 15 wherein the ink is fluorescent.
- 17. The marker system of claim 16 wherein the ink is phosphorescent.
- 18. A balloon catheter comprising:
  an elongate shaft having a lumen therein;
  a balloon attached to a distal end of the shaft and in fluid communication with the balloon; and
  - a means for marking positioned on the balloon.
- 19. The means for marking of claim 18 further comprising opaque patterns.
- 20. The means for marking of claim 18 further comprising patterns which are opaque to light.
- 21. The means for marking of claim 20 further comprising patterns which are opaque to visible light.

- 22. The means for marking of claim 20 further comprising patterns which are opaque to infrared light.
- 23. The means for marking of claim 20 further comprising patterns which are opaque to ultraviolet light.
- 24. The means for marking of claim 18 further comprising ink.
- 25. The means for marking of claim 24 wherein the inly is fluorescent.
- 26. The means for marking of claim 24 wherein the ink is phosphorescent.
- 27. A method comprising:

inserting a catheter into a human body, the catheter comprising a shaft, a balloon mounted on a distal end of the shaft, and markers on the balloon;

advancing the balloon to a treatment site; and visualizing the balloon relative to the human body using the markers.

- 28. The method of claim 27 wherein the step of visualizing the balloon relative to the human body further comprises using light.
- 29. The method of claim 28 wherein the step of visualizing the balloon relative to the human body further comprises using visible light.
- 30. The method of claim 28 wherein the step of visualizing the balloon relative to the human body further comprises using fluorescent light.
- 31. The method of claim 28 wherein the step of visualizing the balloon relative to the human body further comprises/using infrared light.

- 32. The method of claim 28 wherein the step of visualizing the balloon relative to the human body further comprises using ultraviolet light.
- 33. The method of claim 27 wherein the markers further comprise a pattern of ink.
- 34. The method of claim 33 wherein the ink is fluorescept.
- 35. The method of claim 33 wherein the ink is phosphorescent.
- 36. The method of claim 27 wherein the markers comprise a measuring index.
- 37. The method of claim 36 further comprising using the measuring index to determine a parameter of the human body or the balloon.
- 38. The method of claim 37 wherein the parameter is the diameter of the balloon.
- 39. The method of claim 37 wherein the parameter is the topography of a body vessel.
- 40. The method of claim 37 wherein the parameter is the geometry of a restriction in a body vessel.
- 41. The method of claim 27 wherein the step of visualizing the human body further comprises inserting a visualization device into the catheter.

Respectfully submitted,

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